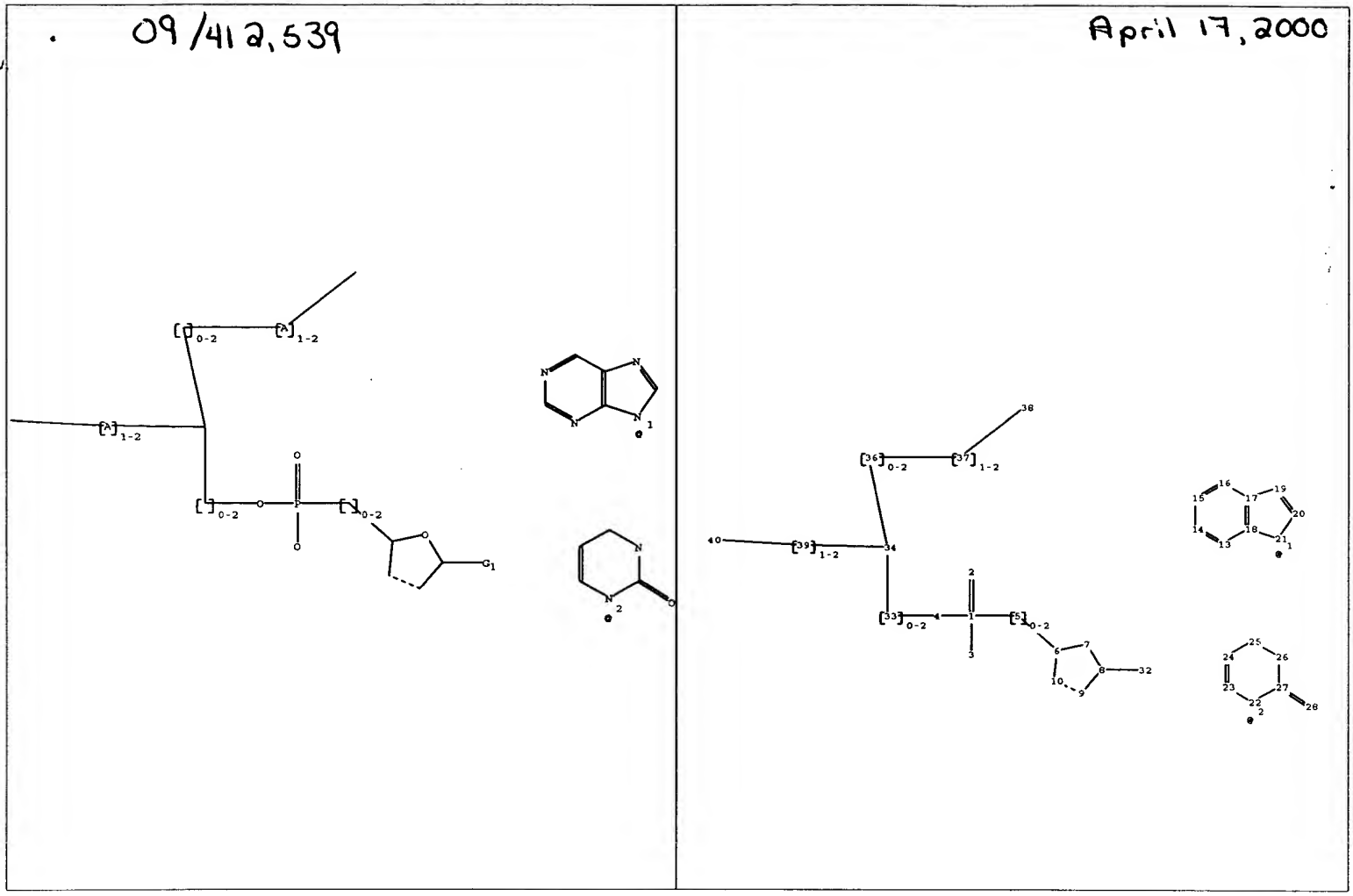
Chemical Abstracts – STN Web

L2 ANSWER 1 OF 1 CA COPYRIGHT 2000 ACS
AN 117:124476 CA
IN Scolaro, Michael J.; Sullivan, Sean M.
TI Inhibition of virus replication with oligonucleotides
SO PCT Int. Appl., 21 pp.
CODEN: PIXXD2
AB Sense oligonucleotides that inhibit viral replication by preventing normal processing of transcripts of replication function genes are delivered to target cells. Delivery is made more efficient by packaging the oligonucleotides in liposomes. Unilamellar liposomes of dipalmitoylphosphocholine 48, cholesterol 25, and distearoylphosphatidylethanolaminoacetyl acetate 27 mol% contg. an oligonucleotide that prevents expression of the tat or rev gene of human immunodeficiency virus (HIV) were prepd. by extrusion. These liposomes were added to cultures of phytohemagglutinin-stimulated peripheral blood mononuclear cells that were subsequently infected with HIV and the accumulation of viral proteins followed. Cells exposed to the sense oligonucleotide showed an 85% redn. of p24 accumulation, whereas cells infected with the antisense strand showed no inhibition.

L4 ANSWER 1 OF 1 CA COPYRIGHT 2000 ACS
AN 120:69591 CA
IN Pidgeon, Charles; Markovich, Robert J.
TI Novel acylated phospholipid drugs for AIDS
SO PCT Int. Appl., 115 pp.
CODEN: PIXXD2
AB Acylated phospholipids R1OCH2CH(OR2)CH2OP(OH)(O)OR (one of R1, R2 = heteroatom fatty acid acyl group having 13-14 C in principal chain and .ltoreq.18 C total, the other = H, heteroatom fatty acid acyl group having 13-14 C in principal chain and .ltoreq.18 C total, acyl group of fatty acid contg. 4-26 C in principal chain and .ltoreq.30 C total; R = naturally occurring polar group characteristic of a glycerolphospholipid isolated from endogenous sources) are disclosed. These phospholipids can be used to inhibit protein myristoylation in animals and thus in the inhibition of retroviral proliferation and in the treatment of AIDS. Several diacylated phospholipids were synthesized. The activity of some of the acylated phosphlipids against HIV strain S5G7 (subclone of HTLVIIIB) was measured by 3 assays. Compds. of the invention, esp. those contg. .gtoreq.1 heteroatom fatty acid acyl chain, exhibited synergistic effects in inhibition of syncytia when administered with AZT.

L6 ANSWER 1 OF 1 CA COPYRIGHT 2000 ACS
AN 117:68365 CA
IN Sunamoto, Junzo; Shiku, Hiroshi
TI Induction of cytotoxic T cell
SO PCT Int. Appl., 19 pp.
CODEN: PIXXD2
AB Mannose-contg. polysaccharide-coated, cancer or virus antigen-contg. liposomes are cytotoxic T lymphocyte inducers and can be administered, e.g., s.c. to subjects to induce cytotoxic T cells. The method is useful for treating cancer or virus infection. Thus, gene gag-env fused protein antigen of adult T leukemia virus origin was encapsulated in liposomes prepd. from egg yolk phosphatidylcholine and 1,2-dimyristoylamido-1,2-deoxyphosphatidylcholine and treated with cholesterol-modified mannan to give the inducer, which was injected s.c. into rats to be transplanted with TARS-1 tumor cells. No tumor growth was noted in the exptl. rats compared to controls.



chain nodes :
1 2 3 4 5 28 32 33 34 36 37 39
ring nodes :
6 7 8 9 10 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
ring/chain nodes :
38 40
chain bonds :
1-2 1-3 1-4 1-5 4-33 5-6 8-32 27-28 33-34 34-36 34-39 36-37 37-38 39-40
ring bonds :
6-7 6-10 7-8 8-9 9-10 13-14 13-18 14-15 15-16 16-17 17-18 17-19 18-21 19-20 20-21 22-23 22-27 23-24 24-25 25-26 26-27
exact/norm bonds :
1-2 1-3 1-4 4-33 8-32 9-10 17-19 18-21 19-20 20-21 22-23 22-27 23-24 24-25 25-26 26-27 27-28 34-39 36-37 37-38 39-40
exact bonds :
1-5 5-6 6-7 6-10 7-8 8-9 33-34 34-36
normalized bonds :
13-14 13-18 14-15 15-16 16-17 17-18
isolated ring systems :
containing 6 :

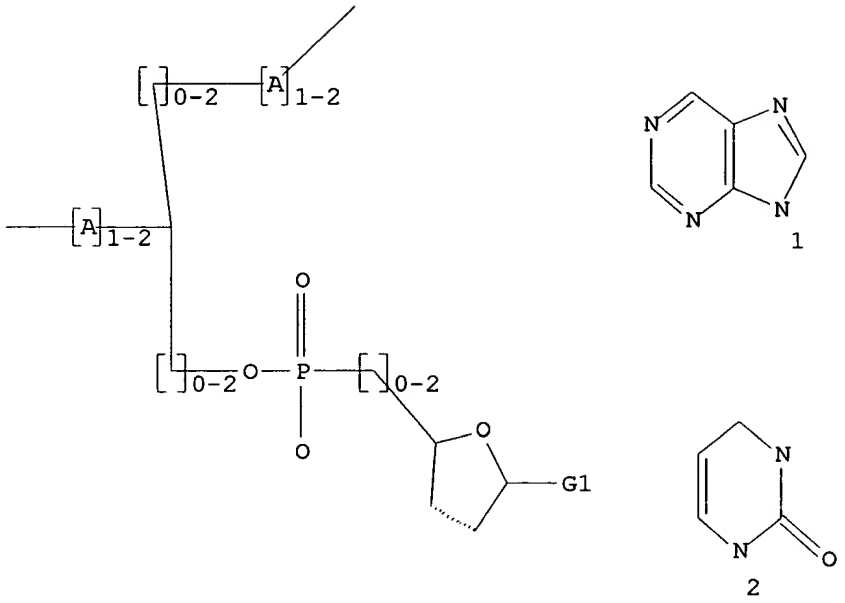
G1:[*1],[*2]

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:Atom 7:Atom 8:Atom 9:Atom

10:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom
19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom
27:Atom 28:CLASS 32:CLASS 33:CLASS 34:CLASS 36:CLASS 37:CLASS
38:CLASS 39:CLASS 40:CLASS

=> d l8

L8 HAS NO ANSWERS
L7 STR



G1 [@1],[@2]

Structure attributes must be viewed using STN Express query preparation.
L8 QUE ABB=ON PLU=ON L7

=> d bib abs hitstr

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2000 ACS
AN 1999:447082 CAPLUS
DN 131:228913
TI 31P NMR study on amino-acylation of 5'-AMP and its analogs
AU Moriguchi, Tomohisa; Yanagi, Terukazu; Wada, Takeshi; Sekine, Mitsuo
CS Midoriku, Nagatsuta, Department of Life Science, Tokyo Institute of Technology, Yokohama, 226-8501, Japan
SO J. Chem. Soc., Perkin Trans. 1 (1999), (13), 1859-1865
CODEN: JCPRB4; ISSN: 0300-922X
PB Royal Society of Chemistry
DT Journal
LA English
OS CASREACT 131:228913
AB The progress of aminoacylation of 5'-AMP with amino acids in the presence of several condensing reagents was monitored by 31P NMR. The resulting products were identified on the basis of their 31P NMR chem. shifts. The aminoacylation of 5'-AMP proceeded completely when DCC was used as a condensing reagent under anhyd. conditions. The synthesis of aminoacyl-adenylate analogs substituted with sulfur and a methylene group for the 5'-phosphoryl oxygen and ribosyl 5'-oxygen atoms, resp., were also

examd. under various conditions. The 31P NMR anal. of these reactions revealed that the 5'-thiophosphate analogs (aa-AMPSs) substituted with sulfur for the 5'-phosphoryl oxygen were formed as main products by the condensation of 5'-AMPS and amino acids by use of di-Ph phosphorochloridate as a condensing reagent, while 5'-Methylenephosphonate derivs. (aa-AMPCs) were formed quant. by use of DCC as a condensing reagent.

IT **243860-16-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(31P NMR study on amino-acylation of 5'-AMP and its analogs)

RN 243860-16-4 CAPLUS

CN L-Methionine, N-[(phenylmethoxy)carbonyl]-, monoanhydride with 5'-deoxy-5'-phosphonoadenosine (9CI) (CA INDEX NAME)

Absolute stereochemistry.